

CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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COUNTRY	East Germany	REPORT NO.	
SUBJECT	Production of P2 Aluminum-Coated Iron Band at VEB Halbzeugwerk Auerhammer	DATE DISTR.	3 July 1953
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25X1 P2 band (iron band coated on both sides with aluminum) is to be produced at VEB Halbzeugwerk Auerhammer, Aue, Saxony, for the Werk fuer Fernmeldewesen HF (OSW). According to tests made at the Auerhammer plant, the P2 band showed a tensile strength (Festigkeit) of 31 kg., expansion (Dehnung) of 11%, and a cupping ductility (Tiefung) of 6 mm.¹ The band is made of 10 mm Armco iron with a carbon content of 0.03% and is plated with a coating of 99.8% pure silicon-free aluminum. Since the present process of rolling P2 band at Auerhammer employs a type of oil not suitable for use with aluminum because of the resultant poor surface, the Auerhammer plant plans to use another type of oil, more suitable for aluminum, in future P2 band production, with mechanical burnishing to smooth the surface. Samples of P2 band have been sent to the HF plant for preliminary tests. The Auerhammer plant claims to be able to produce bands up to 30-40 meters in length.

25X1 Comment. According to a protocol of Special Sub-Commission II (FUK-II) for Research and Development, Special Commission on Electronic Tubes, actual tests have so far shown an expansion of only 4% in P2 band produced by the Auerhammer plant, after 5 hours annealing at 540°. Expansion must be at least 10% for use in molded anodes (Formanoden). Similar P2 from Wickede (Wickedereisen- u. Stahlwerk G.m.b.H., Wickede, Ruhr) showed 23% expansion.

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